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UNDESCRIBED PLANTS FROM GUATEMALA AND OTHER  
CENTRAL AMERICAN REPUBLICS. XXXIII<sup>1</sup>

JOHN DONNELL SMITH

**Anona** (§ATTAE Mart.) **macrophyllata** Donn. Sm.—Folia subsessilia parva elliptico- vel obovato-oblonga apice rotundata vel saltem obtusa basi rotundata vel retusa. Pedunculi laterales ad basin bracteis binis foliaceis cordato-orbicularibus fulti. Petala exteriora oblonga obtusa, interiora deficientia.

Frutex 3-4-metralis. Folia pergamentacea glabra 4-5.5<sup>cm</sup> longa 2-3<sup>cm</sup> lata 7-9-penninervia minutissime reticulata pellucido-punctulata, petiolis 2-3<sup>mm</sup> longis. Pedunculi glabri 23-27<sup>mm</sup> longi, bracteis suboppositis primum ferrugineo-sericeis denique praeter basin marginemque ciliatas glabrescentibus, inferiore 20-24<sup>mm</sup>-diametrali quam altera subdimidio majore, bracteola ad medium pedunculi minuta lanceolata sericea. Sepala ovata 3-4<sup>mm</sup> longa extus ferrugineo-villosa. Petala extus glabrescentia intus cinereo-velutina 21<sup>mm</sup> longa 8<sup>mm</sup> lata basi concava. Stamina 2.5<sup>mm</sup> longa puberula, filamentis antheras subaequantibus, connectivo ultra loculos pulvinato. Torus staminiferus pilosus. Pistilla 2<sup>mm</sup> longa. Fructus desideratur.

In praecipite prope Fiscal, Guatemala, alt. 1110<sup>m</sup>, Jun. 1909, *Charles C. Deam* n. 6191.—Typus in herbario Musei Nationalis servatur.

**Krameria** (§TETRANDRAE Chod.) **dichrosepala** Donn. Sm.—Cano-sericea. Folia lanceolato-linearia. Pedunculi axillares folia subaequantes supra medium bibracteolati. Sepala 4, duobus intermediis et petalis flavicantibus. Petala superiora sepalis paulo breviora unguibus totis coalita, laminis flabelliformibus. Stamina infra medium unguibus petalorum adnata.

Fruticulus prostratus, ramis virgatis 3-5-decimetralibus cum foliis et pedunculis cano-sericeis hinc illinc rufescentibus. Folia sessilia 7-9<sup>mm</sup> longa 1-2<sup>mm</sup> lata in mucronem nigrum 0.5<sup>mm</sup> longum attenuata basi rotundata margine revoluta. Pedunculi 5-8<sup>mm</sup> longi, bracteis foliaceis 5-6<sup>mm</sup> longis. Sepala parum inaequalia 7-8<sup>mm</sup> longa oblongo-ovata obsolete mucronata extus sericea, extimo valde gibboso et intimo sanguineis, intermediis inaequilateralibus. Petala superiora 6<sup>mm</sup> longa, laminis 1.5<sup>mm</sup> longis 2<sup>mm</sup> latis subcrenulatis, intermedio paulo minore, petalis inferioribus suborbicularibus 2<sup>mm</sup>-diametralibus subdenticulatis glabris. Stamina 4.5<sup>mm</sup> longa. Ovarium gibbosum ovale cano-villosum addito

<sup>1</sup> Continued from BOT. GAZETTE 48:300. 1909.

stilo aequilongo stamina paulo superans. Fructus ignotus.—Ad *K. canescentem* A. Gray et *K. biclorem* S. Wats. indumento foliis inflorescentia accedens ab utraque inter alia petalis staminibusque connatis recedit.

Ad viam montanam flumen Montagua ultra hand procul a Gualán, Depart. Zacapa, Guatemala, Jun. 1909, *Charles C. Deam* n. 6273.—Typus in herb. Musei Nationalis servatur.

**Calliandra** (§MACROPHYLLAE Benth.) **rhodocephala** Donn. Sm.—Glabra. Folia breviter petiolata, pinnis unijugis, foliolis trijugis, addito saepius foliolo infimo solitario, inaequaliter oblongo-vel ovato-lanceolatis acute acuminatis basi exteriore rotundatis interiore acutis binerviis. Pedunculi axillares et terminales fasciculati breves. Calyx striatus et corolla erubescens.

Frutex 2.5-metralis. Stipulae ramentaceae oblongo-ovatae 8<sup>mm</sup> longae persistentes. Petiolus communis 1–1.5<sup>cm</sup> longus, pinnarum rhachi 7–1.05<sup>cm</sup> longa, foliolis supra praeter nervos puberulos vernicosis in jugo inaequalibus per paria deorsum decrescentibus, terminalibus 10–12<sup>cm</sup> longis 3.5–4.2<sup>cm</sup> latis, in pare infimo 3.5–5.5<sup>cm</sup> longis, foliolo septimo 2–2.5<sup>cm</sup> longo. Pedunculi circiter 1.5<sup>cm</sup> longi basi bracteis striatis ovato-lanceolatis 8<sup>mm</sup> longis medio bracteola minuta muniti, capitulo glabro, juvenili etiam in sicco laete rosaceo, bracteis floralibus ovalibus 1.5<sup>mm</sup> longis striatis nigro-apiculatis. Calyx obconicus 3<sup>mm</sup> longus, lobis rotundatis 0.5<sup>mm</sup> longis apice nigris. Corolla 8<sup>mm</sup> longa supra dimidium tubulosam infundibuliformis, lobis triangularibus 2<sup>mm</sup> longis trigono-incrassatis. Stamina rosacea 2.5<sup>cm</sup> longa, tubo breviter exserto, antheris glanduloso-puberulis. Legumina ignota.—*C. bolivianae* Britton proxima.

Prope viae ferreae pontem ad Puerto Barrios, Depart. Yzabal, Guatemala, Maj. 1909, *Charles C. Deam* n. 6015.—Typus in herb. Musei Nationalis vidi.

**Casearia** (§PITUMBA Benth.; Warburg) **nicoyensis** Donn. Sm.—Folia lanceolato-elliptica obtuse acuminata basi acuta serrulata supra glabra subtus glabrescentia, punctis atque lineis obsoletis. Pedicelli fasciculati petiolum subaequantes bracteis majusculis bis longiores flore subbreviares. Calycis segmenta linearia. Stamina 8 glabra breviter connata, filamentis staminodia pilosa paulo superantibus.

Inermis, ramulis novellis stipulis foliorum nascentium tergo pedicellis calyce sordide pubescentibus. Folia coriacea 5.5–8.5<sup>cm</sup> longa medio 2.5–3<sup>cm</sup> lata minute appresseque calloso-serrulata erga lucem inspecta pellucido-reticulata, petiolis 3–5<sup>mm</sup> longis, stipulis lanceolato-ovatis 2<sup>mm</sup> longis. Bractee ad nodos foliatis numerosae imbricatae ovatae 2<sup>mm</sup> longae rufidulo-membranaceae glabrescentes, pedicellis 3.5–4<sup>mm</sup> longis. Calycis 5<sup>mm</sup> longi segmenta paene sejuncta 1<sup>mm</sup> lata obtusa intus glabra. Discus staminiferus 1<sup>mm</sup> altus, filamentis 2<sup>mm</sup>

longis, antheris oblongo-ellipsoideis 0.5<sup>mm</sup> longis nudis, staminodiis 1.5<sup>mm</sup> longis totis patenter cano-pilosis. Ovarium pubescens ellipsoideum 1.5<sup>mm</sup> longum in stylo aequilongum indivisum attenuatum, placentis tribus. Capsula deficit.

In fruticetis et secus vias, Peninsula Nicoya, Costa Rica, Apr. 1900, *Adrian Tonduz* n. 13901.

**Reynoldsia americana** Donn. Sm. Folia ter pinnata, foliolis bijugis cum impare lanceolato-ovatis glandulari-serratis. Umbellae subcapituliformes multiflorae racemosae, racemis fasciculatis pedunculatis, floribus 9-10-meris. Corolla clausa ovato-globosa, petalis oblongis.

Arbor mediocris. Ramuli fistulosi foliorum cicatricibus approximatis notati. Folia juvenilia solum visa petiolo 8-11<sup>cm</sup> longo computato 27-30<sup>cm</sup> longa, pinnis primariis 4-jugis, secundariis 3-jugis, foliolis 3.5<sup>cm</sup> longis 2<sup>cm</sup> latis, petiolo dilatato-amplexicauli, stipulis obsoletis. Pedunculi circiter 6-fasciculati 2.5-3.5<sup>cm</sup> longi cum racemi rhachi 1.5-2<sup>cm</sup> longa crassi, ramis 3-4<sup>cm</sup> longis plerumque ad apicem rhacheos 5-8-fasciculatis, umbellis subglobosis 22-36-floris, pedicellis teretibus 5-6<sup>mm</sup> longis inarticulatis, bracteis bracteolisque ovatis parvis, floribus praecocibus ecalyculatis 4<sup>mm</sup> longis. Calyx hemisphaericus 3<sup>mm</sup> latus, limbo integro glandulis circiter 6 apiculato. Petala 9-10 calyptratim cohaerentia et sub anthesi dejecta 3.5<sup>mm</sup> longa 1<sup>mm</sup> lata apice angustata. Stamina 9-10, filamentis superne inflexis, antheris oblongis 2<sup>mm</sup> longis. Stigma 9-10-radiatum stylopodio conico impositum. Drupa ignota.—Species hactenus cognitae insularum Oceani Pacifici incolae sunt.

In silvis, Peninsula Nicoya, Costa Rica, Jan. 1900, *Adolfo Tonduz* n. 13823.—Nomen vernaculare *Chile*.—Typus in herb. Musei Nationalis servatur.

**Bouvardia Deamii** Donn. Sm.—Folia opposita rotundo- vel lanceolato-ovata obtuse acuminata basi rotundata vel acutiuscula. Stipulae integrae deltoideae mucronatae. Pedunculus terminalis 3-5-florus interdum in axilla utraque paenultima uniflorus. Corollae limbus intus cano-velutinus, lobi suborbiculares.

Frutex orgyalis, ramulis divaricatis, novellis sicut stipulae petioli folia nascentia inflorescentia puberulis. Folia supra glabrescentia subtus nervis puberula concoloria 33-38<sup>mm</sup> longa 15-25<sup>mm</sup> lata, nervis lateralibus utrinque 3-4, petiolis 1<sup>mm</sup> longis, stipulis 1.5<sup>mm</sup> longis. Pedunculus saepius triflorus 2.3<sup>mm</sup> longus, pedicellis bracteolisque 1.5-2<sup>mm</sup> longis. Calycis tubus velutinus globosus 1.5-2<sup>mm</sup>-diametralis lobos subulatos 2-3-plo superans. Corollae tubus cylindricus 9-10<sup>mm</sup> longus rufescens extus sparsim puberulus intus glaber faucibus staminiferis ampliatius ore constrictus, lobi late patentes 3-3.5<sup>mm</sup> longi carnulosi intensius coccinei extus glabri. Filamenta tubo ad 2<sup>mm</sup> infra os breviter adnata, antheris subsessilibus basifixis 2<sup>mm</sup> longis. Discus glaber. Stylus glaber 4<sup>mm</sup> longus,

stigmatis bipartiti ramis 1.5<sup>mm</sup> longis. Placentae ovula involventes. Capsula non adest.

Ad fundum praecipitii prope Fiscal, Guatemala, alt. 1110<sup>m</sup>, Jun. 1909, *Charles C. Deam* n. 6190.—Typus in herb. Musei Nationalis servatur.

**Tonduzia Pittieri** Donn. Sm.—Folia 3-4-natim verticillata membranacea lanceolato-elliptica 3-4-plo longiora quam latiora. Calycis segmenta acuta membranacea margine hyalina. Corolla ore canopilosa ceteroquin glabra tubo medio staminifero dilatata. Discus obsoletus. Folliculi divaricati.

Arbuscula 3.5-4.5-metralis omnibus in partibus excepto corollae ore glaberrima. Folia cujusque paris inaequalia 8-12<sup>cm</sup> longa 3-3.5<sup>cm</sup> lata utrinque praesertim superne acuminata nitida subtus pallidiora pellucido-nervata et punctulata, superiora ternata, nervis lateralibus sub margine arcuatis, interjecto interdum altero brevior, venis obsoletis, petiolis 6-9<sup>mm</sup> longis. Cyma pseudo-terminalis corymbiformis laxae ramosa resinoso-glandulosa 5-7<sup>cm</sup> alta 9-10<sup>cm</sup> lata, bracteolis membranaceis lanceolato-ovatis acutis, pedicellis 3-5<sup>mm</sup> longis. Calyx 1.5<sup>mm</sup> longus, segmentis ovatis aegre 1<sup>mm</sup> longis. Corollae totae 1<sup>cm</sup> longae segmenta tubum aequantia oblongo-ovalia bis longiora quam latiora apice rotundata tenuiter membranacea venosa. Stamina glabra, antheris subsessilibus. Ovarii carpella semiconnata, stylo basi vix fixo 1<sup>mm</sup> longo uti stigma 0.5<sup>mm</sup> longum glabro, ovulis in utraque serie circiter 6. Folliculi 6.5-7<sup>cm</sup> longi 5<sup>mm</sup> crassi. Semina ignota.—Hanc ab utraque specie hucusque cognita foliis pro rata lateribus facile dignoscendam clari *H. Pittier*, TONDUZIAE auctori, dicavi.

In praecipite ad Fiscal, Guatemala, alt. 1110<sup>m</sup>, Jun. 1909, *Charles C. Deam* n. 6098.—In silvis prope Gualán, Depart. Zacapa, Guatemala, alt. 186<sup>m</sup>, Jun. 1909, *Charles C. Deam* n. 6307.—Typos in herb. Musei Nationalis servatos vidi.

**Marsdenia gualanensis** Donn. Sm.—Folia utrinque puberula punctata orbiculari-cordata cuspidata 5-nervia. Paniculae axillares sessiles vel breviter pedunculatae petiolum subaequant inferne bis terve furcatae, ramis suberectis incrassatis, pedicellis gracilibus. Corolla extrorsum glabra, faucibus biseriatim cano-barbatis.

Frutex volubilis 3-metralis, ramis petiolisque glabrescentibus. Folia membranacea in cuspidem 1-1.5<sup>cm</sup> longam acutam mucronulatam subabrupte acuminata absque cuspidem 6-8<sup>cm</sup> longa atque lata, sinu rotundato, ima basi cuneata supra glanduloso-maculata, nervis lateralibus praeter basales utrinsecus tribus, venis subtransversalibus, venulis reticulatis pellucidis, petiolis 2.5-3<sup>cm</sup> longis. Paniculae pubescentes 3-3.5<sup>cm</sup> longae, ramis bracteosis 12-18<sup>mm</sup> longis, pedicellis 4-7<sup>mm</sup> longis. Calyx pubescens 2<sup>mm</sup> longus, segmentis oblongo-ovatis obtusis, sinibus eglandulosis. Corollae tubus campanulatus lobos obtuse ovatos atque calycem aequans. Coronae squamae oblongo-ellipticae 0.5<sup>mm</sup> longae gynostegio

dimidio breviores obtusae superne hyalinae. Discus stylinus 0.5<sup>mm</sup>-diametralis breviter rostellatus. Carpidia glabra ovoidea 0.5<sup>mm</sup> longa. Folliculi desunt.

In fruticetis ad viam prope Gualán, Depart. Zacapa, Guatemala, alt. 186<sup>m</sup>, Jun. 1909, *Charles C. Deam* n. 6333.—Specimen typicum in herb. Musei Nationalis servatur.

**Heliotropium** (§*ORTHOSTACHYS* A.DC.) **physocalycium** Donn. Sm.—Omnibus fere in partibus glanduliferum. Folia supra scabridiuscula sparsim strigillosa subtus molliter pilosa lanceolato-oblonga transversim venosa. Pedunculi laterales et terminales dichotomi. Calyx fructiferus auctus inflatus. Stylus brevissimus. Fructus oblato-globosus, nucibus dorso exsculptato-reticulatis.

Frutex 3-metralis. Rami petioli pedunculi spicae necnon calyces simul pubescentes et pilis longis patentibus glandularibus conspersi. Folia 8–11.5<sup>cm</sup> longa 2.5–4<sup>cm</sup> lata utrinque attenuata, petiolis 8–15<sup>mm</sup> longis. Pedunculi bis terve dichotomi 5–8<sup>cm</sup> longi, spicis 7–14<sup>cm</sup> longis, junioribus scorpioidibus, bracteis bracteolisque obsoletis. Calycis floreri 3<sup>mm</sup> longi segmenta lanceolato-ovata herbacea nervosa, fructiferi pentagono-globosi segmenta sibi invicem marginibus applicata late ovata cuspidato-acuminata 4<sup>mm</sup> longa. Corollae tubus 4–4.5<sup>mm</sup> longus extus glandulari-puberulus intus glaber ad 1.5<sup>mm</sup> supra basin staminiferus, lobi semiorbiculares 1<sup>mm</sup> longi, sinubus nudis. Antherae vix cohaerentes lineari-oblongae 1.5<sup>mm</sup> longae apice papillosae. Stigma 1<sup>mm</sup> longum stylo paulo longius, apice truncato-conico glabro. Fructus glandulari-puberulus 1.5<sup>mm</sup> altus 2<sup>mm</sup> latus profunde 4-sulcatus, nucibus leviter cohaerentibus, seminibus rectis.

Capetillo, Depart. Zacatepéquez, Guatemala, alt. 1400<sup>m</sup>, Mart. 1892, *John Donnell-Smith* n. 2472 ex Pl. Guat. etc. quas ed. Donn. Sm.—Laguna de Ayarza, Depart. Jalapa, Guatemala, alt. 2400<sup>m</sup>, Sept. 1892, *Heyde et Lux*, no. 3990 ex Pl. Guat. etc. quas ed. Donn. Sm.—Guatemala, Depart. Guatemala, alt. 1465<sup>m</sup>, Feb. 1905, *W. A. Kellerman* n. 4559.—El Salvador, 1905, *Cárlos Rénson* n. 258.—(Exemplum utrumque nempe Kellermanianum et Rensonianum in herb. Musei Nationalis vidi.)

Eandem plantam in Ecuador collegit et sub numeris 1443<sup>a</sup> et 14850 distribuit cl. *Eggers*.

**Blechum** (§*EUBLECHUM* Oerst.) **pedunculatum** Donn. Sm.—Folia ovata in petiolum decurrentia. Pedunculi axillares spicam ovoideam subaequantes vel superantes, bracteis obovatis 3–5-nerviis unifloris. Corollae lobi obovati tubo longiores. Capsula tetrasperma, seminibus barbatis.

Fruticulus ascendens 24–30-centimetralis, ramis bifariam pubescentibus. Folia utrinque sparsim bulboso-strigillosa subtus nervis patenter pubescentia 3.5–5<sup>cm</sup>

longa 2-3<sup>cm</sup> lata obtuse acuminata ima basi in petiolum totum alatum 1-1.5<sup>cm</sup> longum abrupte contracta. Pedunculi pubescentes 1-2<sup>cm</sup> longi, spica 11-17<sup>mm</sup> longa, axe 6-9<sup>mm</sup> longo, bracteis circiter 10-16 apice rotundatis basi attenuatis ciliatis 7-11<sup>mm</sup> longis 4-8<sup>mm</sup> latis, bracteolis linearibus 1<sup>mm</sup> longis hyalinis. Calycis segmenta lineari-lanceolata 3<sup>mm</sup> longa scariosa nervata. Corollae tubus rectus superne angustatus 5<sup>mm</sup> longus, lobi inaequales, extimus maximus 8<sup>mm</sup> longus atque latus extus pubescens basi intus aurantiaceus. Stamina summo tubo inserta, antheris subsessilibus. Stylus 3<sup>mm</sup> longus. Capsula elliptico-oblonga 7<sup>mm</sup> longa supra medium vacua. Semina pilis rectis glandularibus scabridiusculis munita, retinaculis lanceolato-dilatatis.

Ad viam montanam prope Gualán, Depart. Zacapa, Guatemala, alt. 186<sup>m</sup>, Jun. 1909, *Charles C. Deam* n. 6277.—Typus in herb. Musei Nationalis servatur.

BALTIMORE, MARYLAND